

JA

LAC- LAM 1600



# ENTERED

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/719,277A

DATE: 03/05/2002

TIME: 14:33:13

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\03052002\I719277A.raw

```

3 <110> APPLICANT: Andrea Branch, Jose Walewski, and Dechard Stump
5 <120> TITLE OF INVENTION: NOVEL HEPATITIS C VIRUS PEPTIDES AND USES THEREOF
8 <130> FILE REFERENCE: RII-003CPUS
10 <140> CURRENT APPLICATION NUMBER: US 09/719,277A
11 <141> CURRENT FILING DATE: 2000-12-08
13 <150> PRIOR APPLICATION NUMBER: US 60/088,670
14 <151> PRIOR FILING DATE: 1998-06-09
16 <150> PRIOR APPLICATION NUMBER: US 60/089,138
17 <151> PRIOR FILING DATE: 1998-06-11
19 <150> PRIOR APPLICATION NUMBER: PCT/US99/12929
20 <151> PRIOR FILING DATE: 1999-06-09
22 <160> NUMBER OF SEQ ID NOS: 8
24 <170> SOFTWARE: PatentIn Ver. 2.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 595
28 <212> TYPE: DNA
29 <213> ORGANISM: Hepatitis C virus
31 <400> SEQUENCE: 1
32 gcacgaatcc taaacctcaa agaaaaacca aacgtaacac caaccgtcgc ccacaggacg 60
33 tcaagttccc ggggtggcgt cagatcggtg gtggagtta cttgttgccg cgcaggggcc 120
34 ctgagattggg tgtgcgcgcg acgaggaaga cttccgagcg gtcgcaacct cgaggtagac 180
35 gtcagcctat cccaaggca cgctcgcccg agggcaggac ctgggctcag cccgggtacc 240
36 cttggccctt ctatggcaat gaggggttgcg ggtgggcggg atggctcctg tctccccgtg 300
37 gctctcggcc tagctggggc cccacagacc cccggcgtag gtcgcgcaat ttgggtaagg 360
38 tcategatac ccttacgtgc ggcttcgcgc acctcatggg gtacataaccg ctgcgtcggcg 420
39 cccctcttgg aggcgctgcc agggccctgg cgcattggcg cggggttctg gaagacggcg 480
40 tgaactatgc aacagggaac cttcctgggt gctctttctc tatcttcctt ctggccctgc 540
41 tctcttgcct gactgtgccc gcttcagcct accaagtgcg caattcctcg gggct 595
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 196
45 <212> TYPE: PRT
46 <213> ORGANISM: Hepatitis C virus
48 <400> SEQUENCE: 2
49 Ala Arg Ile Leu Asn Leu Lys Glu Lys Pro Asn Val Thr Pro Thr Val
50 1 5 10 15
52 Ala His Arg Thr Ser Ser Ser Arg Val Ala Val Arg Ser Leu Val Glu
53 20 25 30
55 Phe Thr Cys Cys Arg Ala Gly Ala Leu Asp Trp Val Cys Ala Arg Arg
56 35 40 45
58 Gly Arg Leu Pro Ser Gly Arg Asn Leu Glu Val Asp Val Ser Leu Ser
59 50 55 60
61 Pro Arg His Val Gly Pro Arg Ala Gly Pro Gly Leu Ser Pro Gly Thr
62 65 70 75 80

```

## RAW SEQUENCE LISTING

DATE: 03/05/2002

PATENT APPLICATION: US/09/719,277A

TIME: 14:33:13

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\03052002\I719277A.raw

```

64 Leu Gly Pro Ser Met Ala Met Arg Val Ala Gly Gly Arg Asp Gly Ser
65           85           90           95
67 Cys Leu Pro Val Ala Leu Gly Leu Ala Gly Ala Pro Gln Thr Pro Gly
68           100           105           110
70 Val Gly Arg Ala Ile Trp Val Arg Ser Ser Ile Pro Leu Arg Ala Ala
71           115           120           125
73 Ser Pro Thr Ser Trp Gly Thr Tyr Arg Ser Ser Ala Pro Leu Leu Glu
74           130           135           140
76 Ala Ala Pro Gly Pro Trp Arg Met Ala Ser Gly Phe Trp Lys Thr Ala
77 145           150           155           160
79 Thr Met Gln Gln Gly Thr Phe Leu Val Ala Leu Ser Leu Ser Ser Phe
80           165           170           175
82 Trp Pro Cys Ser Leu Ala Leu Cys Pro Leu Gln Pro Thr Lys Cys Ala
83           180           185           190
85 Ile Pro Arg Gly
86           195

```

89 &lt;210&gt; SEQ ID NO: 3

90 &lt;211&gt; LENGTH: 13

91 &lt;212&gt; TYPE: PRT

92 &lt;213&gt; ORGANISM: Hepatitis C virus

94 &lt;220&gt; FEATURE:

95 &lt;221&gt; NAME/KEY: Variant

96 &lt;222&gt; LOCATION: 8

97 &lt;223&gt; OTHER INFORMATION: Xaa = Asn or Lys

99 &lt;220&gt; FEATURE:

100 &lt;221&gt; NAME/KEY: Variant

101 &lt;222&gt; LOCATION: 9

102 &lt;223&gt; OTHER INFORMATION: Xaa = Val or Glu

104 &lt;220&gt; FEATURE:

105 &lt;221&gt; NAME/KEY: Variant

106 &lt;222&gt; LOCATION: 13

107 &lt;223&gt; OTHER INFORMATION: Xaa = Ala or Val

109 &lt;400&gt; SEQUENCE: 3

W--&gt; 110 Leu Asn Leu Lys Glu Lys Pro Xaa Xaa Thr Pro Thr Xaa

111 1 5 10

114 &lt;210&gt; SEQ ID NO: 4

115 &lt;211&gt; LENGTH: 13

116 &lt;212&gt; TYPE: PRT

117 &lt;213&gt; ORGANISM: Hepatitis C virus

119 &lt;220&gt; FEATURE:

120 &lt;221&gt; NAME/KEY: Variant

121 &lt;222&gt; LOCATION: 6

122 &lt;223&gt; OTHER INFORMATION: Xaa = Leu or Ser

124 &lt;220&gt; FEATURE:

125 &lt;221&gt; NAME/KEY: Variant

126 &lt;222&gt; LOCATION: 10

127 &lt;223&gt; OTHER INFORMATION: Xaa = Ala or Val

129 &lt;220&gt; FEATURE:

130 &lt;221&gt; NAME/KEY: Variant

## RAW SEQUENCE LISTING

DATE: 03/05/2002

PATENT APPLICATION: US/09/719,277A

TIME: 14:33:13

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\03052002\I719277A.raw

```

131 <222> LOCATION: 11
132 <223> OTHER INFORMATION: Xaa = Ala or Val
134 <400> SEQUENCE: 4
• W--> 135 Ala Ala His Arg Thr Xaa Ser Ser Arg Xaa Xaa Val Arg
136      1              5              10
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 14
141 <212> TYPE: PRT
142 <213> ORGANISM: Hepatitis C virus
144 <400> SEQUENCE: 5
145 Leu Asn Leu Lys Glu Lys Pro Asn Val Thr Pro Thr Ala Cys
146      1              5              10
149 <210> SEQ ID NO: 6
150 <211> LENGTH: 14
151 <212> TYPE: PRT
152 <213> ORGANISM: Hepatitis C virus
154 <400> SEQUENCE: 6
155 Ala Ala His Arg Thr Ser Ser Ser Arg Ala Val Val Arg Cys
156      1              5              10
159 <210> SEQ ID NO: 7
160 <211> LENGTH: 18
161 <212> TYPE: PRT
162 <213> ORGANISM: Hepatitis C virus
164 <400> SEQUENCE: 7
165 Pro Thr Asp Pro Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp
166      1              5              10              15
168 Thr Cys
172 <210> SEQ ID NO: 8
173 <211> LENGTH: 20
174 <212> TYPE: PRT
175 <213> ORGANISM: Hepatitis C virus
177 <400> SEQUENCE: 8
178 Gly Cys Ala Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg
179      1              5              10              15
181 Arg Ala Pro Ile
182      20

```

VERIFICATION SUMMARY

DATE: 03/05/2002

PATENT APPLICATION: US/09/719,277A

TIME: 14:33:14

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\03052002\I719277A.raw

L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4